Data Swap User's Guide

General Description

The removable hard drive enclosure allows you to remove a 3.5" device from a PC, Mac, workstation, or disk array sub-system. It provides a simple way to transfer and secure files between computers. Its hot swappable design is a perfect solution for environment involving mission/data critical applications. KS-590E is not hot swappable.

The Data Swap comes as a whole assembly in the box. It actually consists of three major parts:

- The Aluminum Receiving Frame – To be fasten into available 5.25" drive bay
- The Covers - top and bottom
- The Drive Tray – To hold 1" or half height 3.5" hard drive

Installation:

1. Slide the whole assembly into the 5.25" drive bay from the front to the back. Make sure the front panel of the Data Swap lines up with the bezel of your case.
2. With one of your hands holding the assembly, fasten the Data Swap onto the case. Screws to mount not included.
3. Find a large 4-pin white connector on the power supply and connect it into the male 4-pin connector at the back of the Data Swap.
4. Connect the I/O cable (IDE cable for model KS-590E, Ultra Wide SCSI cable for model KS-895A and KS-795U) between the Data Swap and your system. Note: The I/O cable is not included.
5. Lift the handle and pull the Drive Tray out from the case.
6. Slide the top and bottom covers out of the Tray and place the Tray on a flat surface.
7. Inside the Tray you will find a plastic bag containing screws and keys, a white 4-pin power connector, and a IDE cable for KS-590E or a Ultra Wide SCSI cable for model KS-795U). For model KS-895A, no connectors or cables are needed inside the Cartridge.
8. Connect the power connector and cable between the Tray and your hard drive (no connection is needed for KS-895A).
9. Fasten your hard drive into the Tray with screws provided.
10. Slide the top and bottom covers back into the Tray.
11. Slide and push the Tray/hard drive assembly back into the case and turn the lock to ON position with the key provided.

LED Display

Please see the Feature & Specification chart.

LCD Display (For Model KS-895A and KS-795U only)

ID – Display SCSI ID.

FAN STATUS – Fan in Order: A fan sign with turning blades
Fan Stop: A fan sign with still blades (Buzzer will be triggered)
Note: Only the fan at the rear will be monitored.

BUZZER MODE – Display Beep Mode or Silent Mode

TEMPERATURE – Display the present temperature inside the Data Swap in Celsius. Press the DOWN/TEMP key to display temperature setting.
Celsius and Fahrenheit Select: Take off the jumper right below the micro speaker behind the LCD panel to change to Fahrenheit display.

VOLTAGE - Display the actual input voltage (5V and 12V alternately)

MTBF (TOTAL OPERATING TIME) – Press the UP/MTBF key to display the accumulated operating time in days and hours.

HDD ACCESS - Display in cylinder sign (For model KS-795U only)

LCD Setting (For Model KS-895A and KS-795U only)

Turn on your computer. The LCD panel of the Data Swap will be on at the same time. There are four buttons right next to the LCD panel. From the top to bottom, they are marked as SET, UP/MTBF, DOWN/TEMP and RESET.   By pressing these buttons you can change the set up of the built in controller to monitor or display the SCSI ID, Buzzer Mode, MTBF (Total Operating Time), Temperature, Input Voltage and Fan status.

SCSI ID	1	Press SET key. The ID will blink.
	2	Press UP or DOWN keys to set the ID.
		Note: There is a separate ID Setting Dial on the PCB inside the tray. It is recommended to set the same ID address for the dial. This will enable the system to retrieve the right ID when hot-swap is needed. The dial is set up as 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A (10), B (11), C (12), D (13), E (14), F (15).
BUZZER	1	Press SET key again. The buzzer sign will blink.
	2	Press UP or DOWN keys to select the buzzer modes.
		Beep Mode: Press UP key to get to the beep mode. When the controller detects any irregularity, the buzzer will be triggered. Press any key to disable the buzzer temporarily. The buzzer will give one beep per minute until the problem is corrected.
		Silent Mode: Press DOWN key to get to the silent mode. When the controller detects any irregularity, the buzzer will be triggered. Press any key to disable the buzzer. The buzzer will not be activated until new problem happens.
MTBF	1	Press SET key again. The total operating time displayed in days and hours will blink.
	2	Press UP or DOWN key to reset the MTBF to 0 days and 0 hours.
		Not recommended to change. Skip this step if you want to keep the time recorded.
TEMP	1	Press SET key again. The temperature digit will blink.
	2	Press UP or DOWN keys to change the temperature setting.
		Recommended temperature setting: No higher than 55 degree Celsius. Buzzer will be triggered if the temperature inside the Data Swap reaches or exceeds the setting point.
VOLTAGE	1	Press SET key again to set the input voltage tolerance.
	2	Press UP or DOWN keys to select the tolerance mode.
		10% Mode: Press UP key to set the tolerance to 10%.
		5% Mode: Press Down key to set the tolerance to 5%.
		Recommended voltage setting: 10% for power supply 250W or lower.
		Buzzer will be triggered if the input voltage exceeds the setting tolerance.

Appendix:

To install more than one SCSI devices to the host adapter, you need to set:

- SCSI ID setting (0 –7 or 0 – 15)
- Terminating resistors.

To set up the SCSI ID, please follow the procedures mentioned in the LCD setting. Up to eight SCSI devices can be linked in a daisy chain onto a single narrow SCSI bus or up to sixteen devices on a wide SCSI bus. The host adapter takes one ID (usually ID 7 or 15). Thus only seven or fifteen devices can be used. Termination is required at both end of the bus. Usually the host adapter is at one end of the bus. It has its internal termination enabled. An external terminator will go to the output SCSI connector of the last device as shown below. If the adapter is in the middle of the bus, the internal termination has to be disabled and the devices at both ends must have the external terminators installed. See the illustration below.